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**(54) RADIO TRANSMITTING/RECEIVING EQUIPMENT**  
**CAPABLE OF EXECUTING LOOP-BACK TEST**

transmitting signal filtering means 2, passes through the means 4, and is transmitted from an antenna 203.

## (57) Abstract:

**PURPOSE:** To miniaturize the equipment by providing a shifter means on an output side of a receiving frequency converting means.

**CONSTITUTION:** A received signal is inputted to a received signal filtering means 3 through a transmitting/receiving shared means 4, and converted to an intermediate frequency signal(IF signal) for a MODEM 100 by a receiving frequency converting means 5 after suppressing an unwanted wave. At the time of loop-back test, a transmitting signal of a transmitting system TS is attenuated by a transmitting signal loop-back means 6, and loop-backed to a receiving system RS. This loop-back signal passes through the means 5, and thereafter, converted to a receiving input frequency of the device 100 by shifter means 7, 9. In such a way, a miniaturized and economical device can be provided without spoiling an RF loop-back function. Also, the IF signal from the device 100 is converted to a transmitting frequency signal by a transmitting frequency converting means 1 of the transmitting system TS, and thereafter, suppresses an undesired wave by a

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